

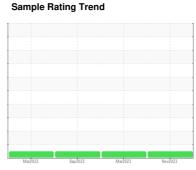
COOLANT REPORT



COLORADO/443 46.105L [COLORADO^443] Component

Coolant

CATERPILLAR ELC (12 GAL)





Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service.

Corrosion

All metal levels are normal indicating no corrosion in the cooling system.

Contaminants

There is no indication of any contamination in the coolant.

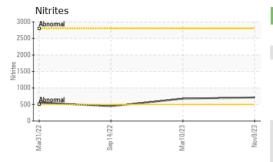
Coolant Condition

Carboxylate test failed. Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

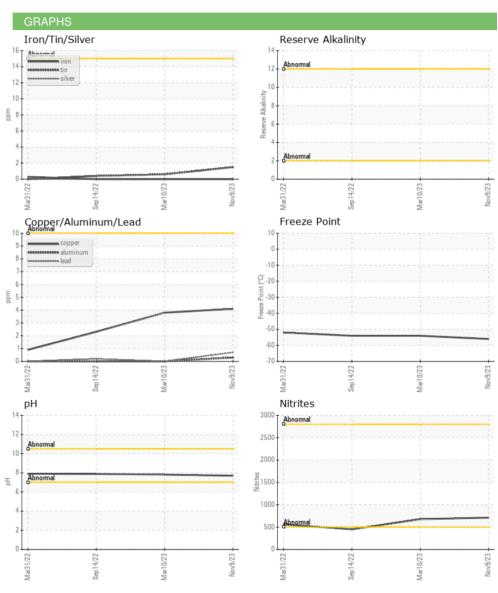
SAMPLE INFORMATION method limit/base current history1 history2	,		Mar202	2 Sep2022	Marž023	lov2023	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 1832 1355 855 Oil Age hrs Client Info 1832 0 855 Oil Changed Client Info Not Changd 10 6 10 7 10 7 20 8 10 7 20 8 20 8 20 8 20 8 20 8 20 8 20 8 20 8 20 8 20 8 20 8 20 8 20 8	Sample Number		Client Info		WC0859634	WC0766212	WC0672102
Oil Age	Sample Date		Client Info		09 Nov 2023	10 Mar 2023	14 Sep 2022
Oil Changed Sample Status Client Info Sample Status Not Changd NORMAL 1.078 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>1832</th> <th>1355</th> <th>855</th>	Machine Age	hrs	Client Info		1832	1355	855
Oil Changed Sample Status Client Info Sample Status Not Changd NORMAL 1.078 <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>1832</th> <th>0</th> <th>855</th>	Oil Age	hrs	Client Info		1832	0	855
PHYSICAL TEST RESULTS method limit/base current history1 history2	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Specific Gravity	Sample Status				NORMAL	NORMAL	NORMAL
pH Scale 0-14 ASTM D1287 7.70 7.81 7.88 Nitrites ppm AP-053:2009 712 676 448 Reserve Alkalinity Scale 0-20 "ASTM D1121 Percentage Glycol % ASTM D3321 59.0 58.6 58.2 Freezing Point °F ASTM D3321 -56 -54 -54 Total Dissolved Solids 423.5 408.0 0 Carboxylate fail pass pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 45 81 52 Phosphorus ppm ASTM D6130 0 118 192 87 Boron ppm ASTM D6130 0 0 0 0 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >10	PHYSICAL TEST R	RESULTS	method	limit/base	current	history1	history2
Nitrites	Specific Gravity		*ASTM D1298		1.078	1.078	1.078
Reserve Alkalinity Scale 0-20 "ASTM D1121	pH	Scale 0-14	ASTM D1287		7.70	7.81	7.88
Percentage Glycol % ASTM D3321 59.0 58.6 58.2	Nitrites	ppm	AP-053:2009		712	676	448
Freezing Point °F ASTM D3321 -56 -54 -54 Total Dissolved Solids 369.5 423.5 408.0 Carboxylate fail pass pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 45 81 52 Phosphorus ppm ASTM D6130 0 0 0 0 Boron ppm ASTM D6130 0 0 0 0 Molybdenum ppm ASTM D6130 950 717 1200 1148 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 <1 0 0 Copper ppm ASTM D6130 >10 <1 0 <1 1 Lead	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids 369.5 423.5 408.0 Carboxylate fail pass pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 45 81 52 Phosphorus ppm ASTM D6130 0 118 192 87 Boron ppm ASTM D6130 0 0 0 0 Molybdenum ppm ASTM D6130 950 717 1200 1148 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 <1 0 0 Copper ppm ASTM D6130 >10 <1 0 <1 Lead ppm ASTM D6130 >10 2 <1 <1 Cinc ppm	Percentage Glycol	%	ASTM D3321		59.0	58.6	58.2
Carboxylate fail pass pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 45 81 52 Phosphorus ppm ASTM D6130 0 0 0 0 Boron ppm ASTM D6130 0 0 0 0 Molybdenum ppm ASTM D6130 950 717 1200 1148 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 <1 0 0 Copper ppm ASTM D6130 >10 4 4 2 Lead ppm ASTM D6130 >10 2 <1 <1 Tin ppm ASTM D6130 10 2 <1 <1	Freezing Point	°F	ASTM D3321		-56	-54	-54
CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 45 81 52 Phosphorus ppm ASTM D6130 0 118 192 87 Boron ppm ASTM D6130 0 0 0 0 Molybdenum ppm ASTM D6130 950 717 1200 1148 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 <1 0 0 Copper ppm ASTM D6130 >10 <1 0 <1 Lead ppm ASTM D6130 >10 2 <1 <1 Zinc ppm ASTM D6130 1 <1 <1 <1 CONTAMINANTS method limit/base current	Total Dissolved Solids				369.5	423.5	408.0
Silicon ppm ASTM D6130 0 45 81 52 Phosphorus ppm ASTM D6130 0 118 192 87 Boron ppm ASTM D6130 0 0 0 0 Molybdenum ppm ASTM D6130 950 717 1200 1148 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 <1 0 0 Copper ppm ASTM D6130 >10 <1 0 <1 Lead ppm ASTM D6130 >10 2 <1 <1 Tin ppm ASTM D6130 >10 2 <1 <1 CONTAMINANTS method limit/base current history1 history2 Sodium ppm ASTM D6130 3401 6589	Carboxylate				fail	pass	pass
Phosphorus ppm ASTM D6130 0 118 192 87 Boron ppm ASTM D6130 0 0 0 0 Molybdenum ppm ASTM D6130 950 717 1200 1148 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 <1 0 0 Copper ppm ASTM D6130 >10 <1 0 <1 Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 2 <1 <1 Zinc ppm ASTM D6130 1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 3401 6589 2805	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron ppm ASTM D6130 0 0 0 0 Molybdenum ppm ASTM D6130 950 717 1200 1148 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 <1 0 0 Copper ppm ASTM D6130 >10 4 4 2 Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 2 <1 <1 Zinc ppm ASTM D6130 1 <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 3401 6589 2805 Potassium ppm ASTM D6130 505 928 306	Silicon	ppm	ASTM D6130	0	45	81	52
Molybdenum ppm ASTM D6130 950 717 1200 1148 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 <1 0 0 Copper ppm ASTM D6130 >10 <1 0 <1 Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 2 <1 <1 Zinc ppm ASTM D6130 1 <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 3401 6589 2805 Sodium ppm ASTM D6130 505 928 306 SCALE POTENTIAL method limit/base	Phosphorus	ppm	ASTM D6130	0	118	192	87
CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 <1 0 0 Copper ppm ASTM D6130 >10 4 4 2 Lead ppm ASTM D6130 >10 2 <1 <1 Tin ppm ASTM D6130 >10 2 <1 <1 Zinc ppm ASTM D6130 1 <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 19 7 3 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 505 928 306 SCALE POTENTIAL method limit/base current history1 history2 <	Boron	ppm	ASTM D6130	0	0	0	0
Iron ppm ASTM D6130 >15 0 0 0 Aluminum ppm ASTM D6130 >10 <1	Molybdenum	ppm	ASTM D6130	950	717	1200	1148
Aluminum ppm ASTM D6130 >10 <1	CORROSION		method	limit/base	current	history1	history2
Copper ppm ASTM D6130 >10 4 4 2 Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 2 <1 <1 Zinc ppm ASTM D6130 1 <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 19 7 3 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 3401 6589 2805 Potassium ppm ASTM D6130 505 928 306 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 2 1 1	Iron	ppm	ASTM D6130	>15	0	0	0
Lead ppm ASTM D6130 >10 <1	Aluminum	ppm	ASTM D6130	>10	<1	0	0
Tin ppm ASTM D6130 >10 2 <1	Copper	ppm	ASTM D6130	>10	4	4	2
Zinc ppm ASTM D6130 1 <1	Lead	ppm	ASTM D6130	>10	<1	0	<1
CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 19 7 3 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 3401 6589 2805 Potassium ppm ASTM D6130 505 928 306 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 2 1 1	Tin	ppm	ASTM D6130	>10	2	<1	<1
Chlorine ppm ASTM D6130 19 7 3 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 3401 6589 2805 Potassium ppm ASTM D6130 505 928 306 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 2 1 1	Zinc	ppm	ASTM D6130		1	<1	<1
CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 3401 6589 2805 Potassium ppm ASTM D6130 505 928 306 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 2 1 1	CONTAMINANTS	;	method	limit/base	current	history1	history2
Sodium ppm ASTM D6130 3401 6589 2805 Potassium ppm ASTM D6130 505 928 306 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 2 1 1	Chlorine	ppm	ASTM D6130		19	7	3
Potassium ppm ASTM D6130 505 928 306 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 2 1 1	CARRIER SALTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D6130 505 928 306 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 2 1 1	Sodium	ppm	ASTM D6130		3401	6589	2805
Calcium ppm ASTM D6130 2 1 1	Potassium	ppm	ASTM D6130		505	928	306
President Control of the Control of	SCALE POTENTI	AL	method	limit/base	current	history1	history2
Magnesium ppm ASTM D6130 1 0 <1	Calcium	ppm	ASTM D6130		2	1	1
	Magnesium	ppm	ASTM D6130		1	0	<1



COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Red	Red	Red
Coolant Appearance	*Visual	Clear	normal	normal	normal
Color				no image	
Bottom			C	no image	





Laboratory Sample No. Lab Number Unique Number : 10743015

: WC0859634 : 06009253

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Nov 2023 Diagnosed

: 05 Dec 2023 Diagnostician : Doug Bogart

Test Package : COOL- (Additional Tests: COOL, ICP) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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